Worldwide, domestic, and foreign sales for companies located in the United States that performed or funded R&D, by business activity: 2016
(Millions of U.S. dollars)

Business activity ^a	Business code ^b	Worldwide	Domestic	Foreign
All business activities	21100-81000	12,285,760	9,191,871	3,093,889
Oil and gas extraction	21100	117,732	58,244	59,489
Mining	21200	28,755	18,634	10,121
Support activities for mining, including oil and gas	21300	44,702	25,825	18,877
Utilities	22100	306,761	302,288	4,473
Construction	23000	52,281	45,590	6,691
Food manufacturing	31100	707,781	523,397	184,384
Beverages manufacturing	31210	155,463	111,433	44,030
Tobacco manufacturing	31220	65,022	34,196	30,826
Textiles, apparel, and leather products manufacturing	31990	113,516	93,256	20,260
Wood products manufacturing	32100	40,764	35,117	5,647
Paper manufacturing	32200	126,987	92,775	34,212
Printing and related support activities	32300	31,309	26,808	4,501
Petroleum refineries	32401	415,590	245,480	170,110
Asphalt paving, roofing, and saturated materials manufacturing	32402	12,300	9,066	3,234
Other petroleum and coal products manufacturing, including motor oil, hydraulic fluid, and charcoal	32403	15,672	10,569	5,103
Basic chemicals manufacturing	32510	264,981	205,258	59,722
Resins, synthetic rubber, and artificial synthetic fibers and filaments manufacturing	32520	91,427	58,372	33,055
Pesticides, fertilizers, and other agricultural chemicals manufacturing	32530	59,610	42,103	17,507
Pharmaceutical, medicinal, botanical, and biological products (except diagnostic substances) manufacturing	32541	599,300	454,867	144,433
In vitro diagnostic substances manufacturing	32542	16,288	7,753	8,536
Biotechnology-based pharmaceutical and biological products (except diagnostic substances) manufacturing	32543	90,940	77,531	13,408
Soaps, cleaning compounds, and toilet preparations manufacturing	32591	164,824	83,100	81,724
Paints, adhesives, and other chemicals manufacturing	32592	118,873	73,419	45,453
Plastics and rubber products manufacturing	32600	240,149	175,735	64,414
Clay and glass products manufacturing	32710	47,765	30,853	16,912
Cement, concrete, lime, gypsum, and other nonmetallic mineral products manufacturing	32790	34,781	28,328	6,453
Primary metal manufacturing	33100	121,362	105,918	15,444
Fabricated metal products manufacturing	33200	165,127	129,815	35,312
Agricultural machinery and equipment manufacturing	33311	51,777	30,093	21,684
Construction machinery manufacturing	33312	49,370	35,074	14,296
Mining, oil, and gas field machinery and equipment manufacturing	33319	48,043	21,616	26,427
Semiconductor machinery manufacturing	33321	30,749	15,676	15,074
Industrial machinery manufacturing (except semiconductor machinery)	33322	37,747	25,375	12,372
Photographic and photocopying equipment manufacturing	33331	7,670	6,774	896
Commercial, service industry, temperature control, and air-flow control machinery manufacturing	33332	114,388	76,726	37,662
Digital cameras manufacturing	33333	5,580 i	2,068	3,512
Engine, turbine, and power transmission equipment manufacturing	33360	89,194	52,344	36,850
Metalworking and other general purpose machinery manufacturing	33390	116,040	77,458	38,582
Computers and peripheral equipment manufacturing and magnetic and optical media	33412	414,723	212,338	202,386
Telephone apparatus manufacturing, including routers, modems, and gateways	33421	76,228	44,014	32,213
Radio, television, and wireless communication equipment manufacturing	33422	49,323	40,293	
Other communication equipment manufacturing (except radio, television, and wireless communication equipment)	33429	16,352	14,452	1,900
Audio and video equipment manufacturing	33430	35,473	25,739	9,734
Semiconductor and other electronic components manufacturing	33440	296,187	156,528	139,659

TABLE 9
Worldwide, domestic, and foreign sales for companies located in the United States that performed or funded R&D, by business activity: 2016
(Millions of U.S. dollars)

usiness activity ^a	Business code ^b	Worldwide	Domestic	Foreig
Electromedical, electrotherapeutic, and irradiation apparatus manufacturing	33451	47,577	32,312	15,26
Search, detection, navigation, guidance, aeronautical, and nautical systems and instruments manufacturing	33452	59,659	47,879	11,780
Measuring and control instruments manufacturing (not listed elsewhere)	33459	102,293	62,706	39,587
Electrical equipment, appliances, and components manufacturing	33500	213,569	140,087	73,482
Motor vehicles manufacturing	33610	709,702	574,326	135,376
Motor vehicle body and trailer manufacturing	33620	63,845	63,455	390
Motor vehicle parts manufacturing	33630	245,224	152,650	92,573
Aircraft manufacturing	33641	136,497	130,676	5,82
Aircraft engine and engine parts manufacturing	33642	38,176	36,861	1,31
Other aircraft parts and auxiliary equipment manufacturing	33643	85,120	68,070	17,05
Guided missiles, space vehicles, and related parts manufacturing	33644	30,600	30,261	33
Railroad rolling stock manufacturing	33651	14,871	11,110	3,76
Ship and boat building	33660	D	33,497 i	
Motorcycle, bicycle, and parts manufacturing	33691	9,525	6,294 i	3,23
Military armored vehicles, tanks, and tank components manufacturing	33692	4,263	4,185	7
All other transportation equipment manufacturing	33699	14,472	11,977	2,49
Furniture and related products manufacturing	33700	45,372	38,473	6,89
Medical equipment and supplies manufacturing	33910	239,051	162,044	77,00
Miscellaneous manufacturing not listed elsewhere (games, office supplies, slot machines, etc.)	33990	131,768	86,242	45,52
Merchant wholesalers, durable goods	42300	224,331	196,996	27,33
Merchant wholesalers, nondurable goods	42400	513,889	360,816	153,07
Wholesale electronic markets and agents and brokers (business to business)	42500	60,202	59,657	54
Retail trade (except electronic shopping and electronic auctions)	44000	292,344	275,053	17,29
Electronic shopping and electronic auctions	45411	D	110,618	,
Transportation	48000	126,059	108,956	17,10
Couriers, messengers, and express delivery services	49200	187,345	141,429	45,91
Warehousing and storage	49300	4,652	3,359	1,29
Newspaper, periodical, book, and directory publishers (except Internet)	51110	8,704	7,262	1,44
Software publishers (except Internet)	51120	256,714	155,325	101,38
Motion picture and sound recording (except Internet)	51200	9,353	6,863	2,49
Broadcasting (except Internet)	51500	84,899	70,184	14,71
Wired telecommunications carriers	51710	181,904	179,239	2,66
Wireless telecommunications carriers (except satellite)	51720	172,416	172,357	5
Satellite telecommunications	51740	61,927	61,622	30
Other telecommunications (not listed elsewhere)	51790	8,524	7,685	84
Data processing, hosting, and related services	51800	76,310	59,466	16,84
Cloud computing applications and Internet-based software services	51801	56,784	44,095	12,68
Other information services, including Internet publishing, broadcasting, and Web search portals	51910	112,825	75,034	37,79
Finance: banking and credit intermediation	52200	401,295	343,070	58,22
Securities, commodity contracts, and other financial investments and related activities, including funds and trusts	52310	72,115	55,068	17,04
Insurance carriers and related activities	52400	372,903	353,842	19,06
Real estate	53100	9,311	9,253	5
Rental and leasing services	53200	19,067	12,368	6,69
Lessors of nonfinancial intangible assets, including patent licensing	53300	1,468	1,386	8
Legal, accounting, tax preparation, bookkeeping, and payroll services	54111	19,511	16,696	2,81
Architectural, engineering, and related services	54130	105,993	79,090	26,90

TABLE 9

Worldwide, domestic, and foreign sales for companies located in the United States that performed or funded R&D, by business activity: 2016

(Millions of U.S. dollars)

susiness activity ^a	Business code ^b	Worldwide	Domesti	С	Foreign
Specialized design services	54140	706	638		68
Computer systems design and related services	54150	249,595	175,987	П	73,608
Management, scientific, and technical consulting services	54160	63,141	55,607		7,534
Research and development services in social sciences and humanities	54172	1,131	1,124		7
Research and development services in biotechnology	54173	9,090	6,614		2,476
Research and development services in physical, engineering, and life sciences (except biotechnology)	54174	37,987	30,731		7,255
Advertising and related services	54180	D	44,671		D
Professional, scientific, and technical services (not listed elsewhere)	54190	13,888	12,355		1,533
Management of companies and enterprises	55100	11,794 i	11,173	i	622
Administrative and support services	56100	55,675	27,537		28,138
Waste management and remediation services	56200	27,493	25,585		1,908
Offices of physicians	62110	40,574	40,574		0
Medical and diagnostic laboratories	62150	27,294 i	25,398	i	1,896
Other ambulatory health care services (ambulance, dental, home health care)	62199	5,226	5,226		0
Hospitals and nursing care facilities	62200	32,896	32,609		287
Social assistance services	62400	77	77		0
Arts, entertainment, and recreation	71000	20,639	17,723		2,916
Accommodation and food services	72000	66,954	32,457		34,497
Other services (not listed elsewhere)	81000	238,452	173,754		64,699
Less: intersegment eliminations	_	227,524	130,160		97,364
Undistributed	_	0	0		0

D = data withheld to avoid disclosing operations of individual companies; i = > 50% of the estimate is a combination of imputation and reweighting to account for nonresponse.

NAICS = 2012 North American Industry Classification System.

Note(s)

Domestic sales are the amount of sales that originated from domestic operations. Foreign sales are the amount of sales that originated from foreign operations. Detail may not add to total because of rounding. For companies that did not report business codes, the classification used for sampling was assigned. Statistics are representative of companies located in the United States that performed or funded R&D.

Source(s)

National Science Foundation, National Center for Science and Engineering Statistics, and U.S. Census Bureau, Business R&D and Innovation Survey, 2016.

^a Data are tabulated independent of the industry classification of the company. Companies were asked to report their sales and R&D activity in one or more business activity codes.

^b Business codes and descriptions are based on 2012 NAICS industry definitions.